Nokia Customer Care
NEM-4 Series Transceivers

4 - Service Tools

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JBV-1 Docking Station and MJF-26 Adapter

The JBV-1 Docking Station has been designed for calibration and software update use.

The MJF-26 Docking Station Adapter makes signal connections to the phone. JBV-1 and MJF-26 are used as one unit.

JBV-1 main electric functions are:

- adjustable VBATT calibration voltage, current measurement limit voltage "VCHAR", current measurement calibration current "ICHAR"
- adjustable ADC calibration voltage via BTEMP and BSI signal
- BTEMP and BSI calibration resistor
- signals from FBUS to the phone via parallel jig
- control via FBUS or USB
- Flash OK/FAIL indication

In calibration mode JBV-1 is powered by external power supply 11-16V DC. In flashing power for the phone can be taken from FPS-8 or external power supply 11-16V DC.

Product code

JBV-1	Docking Station:	0770298
MJF-26	Docking Station Adapter:	0770567

View of MJF-26

Figure 1: MJF-26

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MJS-80 Module Jig

The MJS-80 Module Jig is used for testing of the following modules:

- User Interface
- Baseband and RF on system module

Product code

MJS-80 Module Jig: 0770566

View of MJS-80

Figure 2: MJS-80

*Note: The nominal supply voltage for MJS-80 is +6.0 V.

The supply voltage must not exceed +12.0 V (min 5V).

(MJS-80 has overvoltage protection.)

For flashing with FPS-8 it is possible to bypass regulator (jumper).

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RJ-10 Soldering Jig

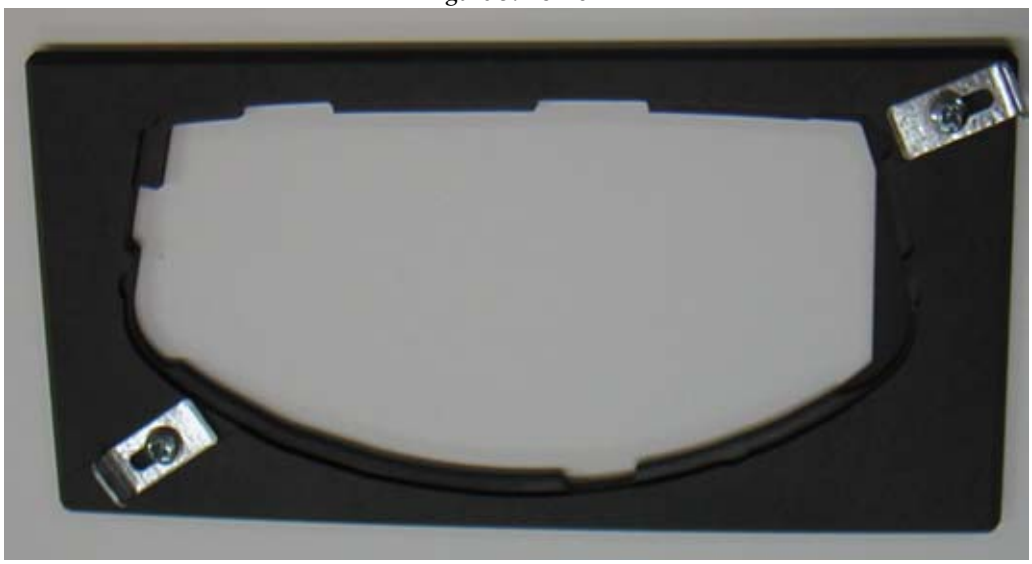
The Soldering Jig RJ-10 is used for soldering and as a rework jig for system module.

Product code

RJ-10 Module Jig: 0770542

View of RJ-10

Figure 3: RJ-10



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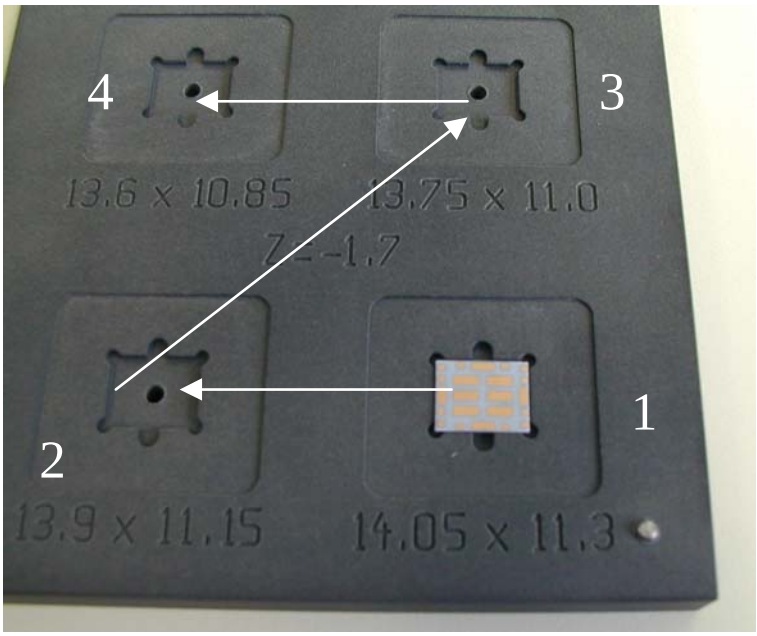
LRK-2 / 3 LGA Component Rework Kits 1 & 2

Type designator	Description	Part code
LRK-2 (0273645) Kit 1		
MJS-76	LGA Re-work Jig	0770417
SES-2	Stencil	0770415
SPS-2	Spreader	0770471
LRK-3 (0273646) Kit 2		
SES-2	Stencil	0770415
SPS-2	Spreader	0770471

Rework procedure

Due to the large mechanical tolerance of the power amplifiers the following procedure is necessary:

1 Put power amplifier into the MJS-76 re-work jig, the PA should be placed in the best fit location, this is determined by firstly placing it in the largest location if this is to large re-position the pa in the next size location, this should be carried out until the best fit location is found.



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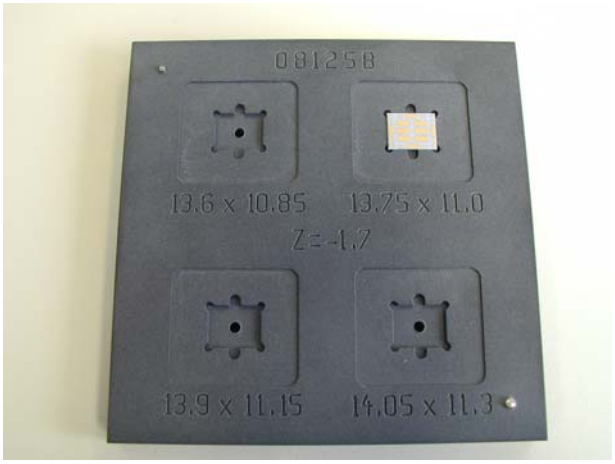
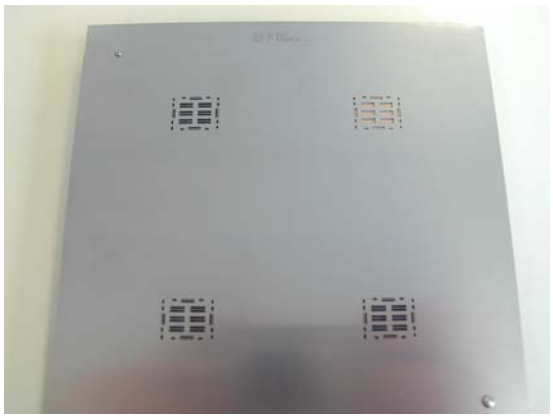
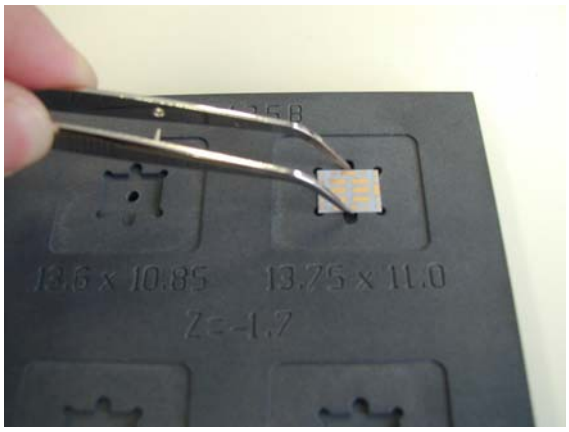
2 Once the best fit location has been found, leave the PA there and put stencil on top of the jig and PA.





3 Put soldering paste on the PA properly.

4 Remove stencil and the PA from the jig.



5 Start soldering process.

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MJS-76 PA LGA Re-work Jig (Product Code 0770417)

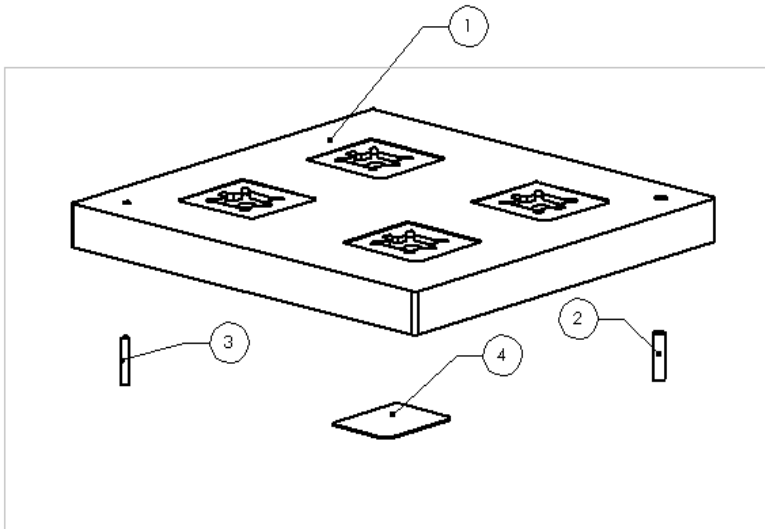
Introduction

This tool is used in LGA type component reworking purposes in central service centers,

Part list

Part number	Name of Part	Material code	Drawing number	Qty
1	Frame		SME5S910	1
2	Cylindrical pin 3x12	640b003		1
3	Cylindrical pin 2x12	640B012		1
4	Type label	9380601		1

Exploded view



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FPS-8 Flash Prommer (Sales Pack)

The Flash Prommer FPS-8 is used with e.g. FLA-21 and JBV-1. Power is supplied to FPS-8 from the Universal Power Supply.

The sales pack includes:

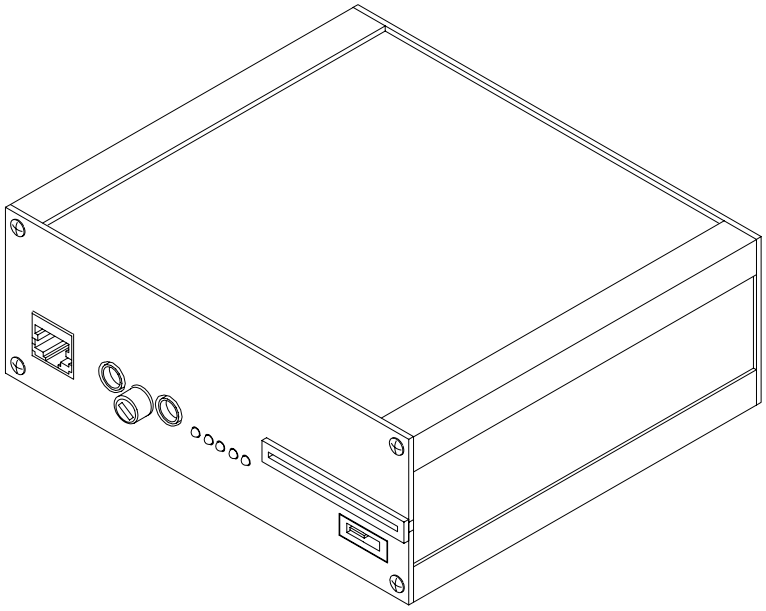
- FPS-8 Flash Prommer 0750123
- FPS-8 Activation Sheet 9359289
- Universal Power Supply 0680032
- AXS-4 Service Cable (D9-D9) 0730090
- Printer cable 0730298

Sales package code

FPS-8 Flash Prommer: 0080321

View of FPS-8

Figure 4: FPS-8



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FPS-8C Parallel Flash Prommer (Sales Pack)

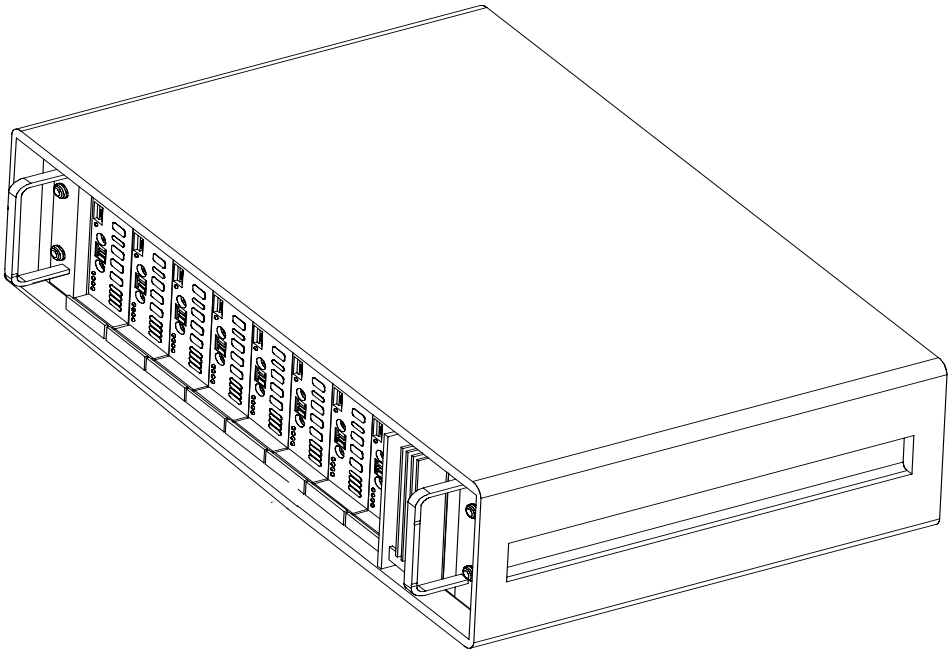
The Parallel Flash Prommer FPS-8C is used with MJF-6 and JBV-1. Flash programming can be done to maximum of 8 phones parallel. FPS-8C consists of eight SF11C programming cards. SF11C card is functionally identical to FPS-8.

Sales package code

FPS-8C Parallel Flash Prommer: 0080396

View of FPS-8C

Figure 5: FPS-8C



ACF-8 Universal Power Supply

ACF-8 Universal Power Supply is used to power FPS-8. ACF-8 has 6 V DC and 2.1 A output.

Product code

ACF-8 Universal Power Supply: 0680032

View of ACF-8

Figure 6:

Picture will be added here later.

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FLA-41 POS (Point Of Sale) Flash Loading Adapter

The POS Flash Loading Adapter FLA-41 is used in place of the phone's normal battery during service, to supply a controlled operating voltage and to connect to pads which are under battery.

Product code

FLA-41 POS Flash Loading Adapter: 0770565

View of FLA-41

Figure 7: FLA-41

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FLC-2 DC Cable

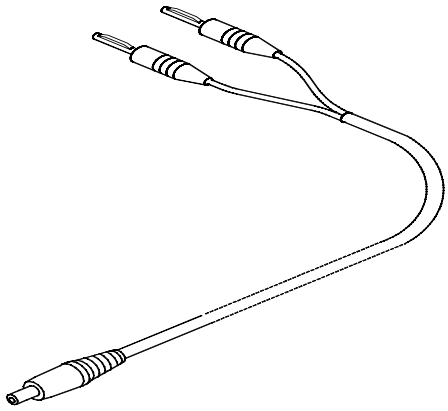
The FLC-2 is used to supply a controlled operating voltage to FLA-41 adapter.

Product code

FLC-2 DC Cable: 0730185

View of FLC-2

Figure 8: FLC-2



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AXS-4 Service Cable

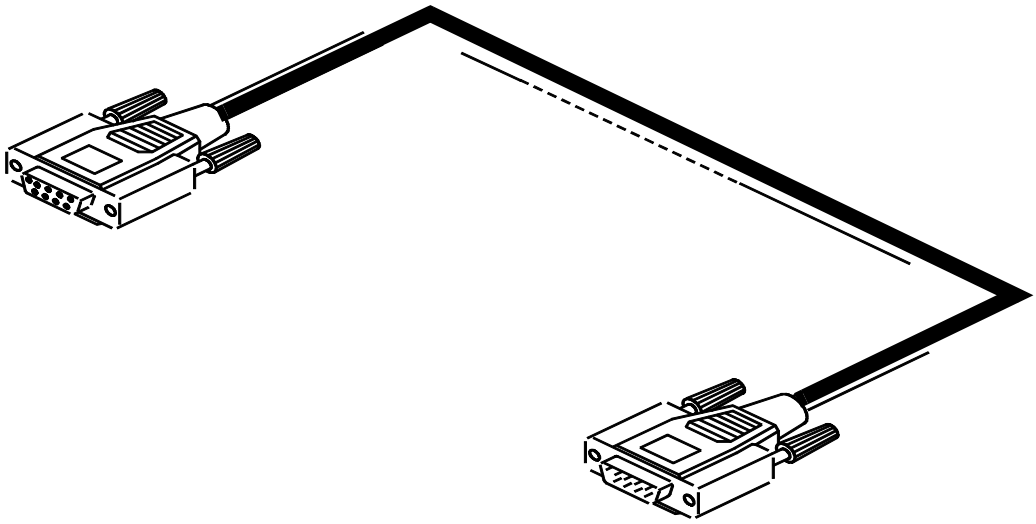
The AXS-4 D9-D9 Service Cable is used to connect two 9 pin D connectors e.g. between PC and FPS-8. Cable length is 2 meters.

Product code

AXS-4 D9-D9 Service Cable: 0730090

View of AXS-4

Figure 9: AXS-4



XCS-1 Service Cable

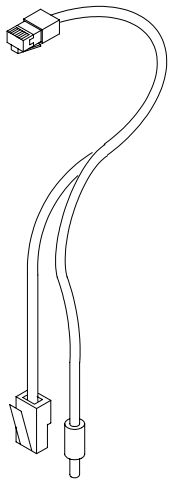
The XCS-1 Service Cable is used to connect FLS-4S to FLA-41.

Product code

XCS-1 Service Cable: 0730218

View of XCS-1

Figure 10: XCS-1



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SW Security Device PKD-1

SW security device is a piece of hardware enabling the use of the service software when connected to the parallel (LPT) port of the PC. Whithout the dongle present it is not possible to use the service software. Printer or any such device can be connected to the PC through the dongle if needed.

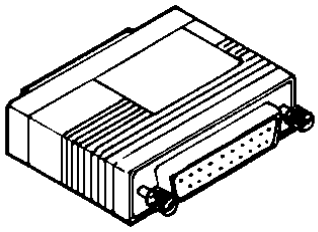
Caution: Make sure that you have switched off the PC and the printer before making connections!

Caution: Do not connected the PKD-1 to the serial port. Product Code

SW Security Device PKD-1: 0750018

View of SW Security Device

Figure 11: PKD-1



FPS-4S POS (Point Of Sale) Flash Device (Sales Pack)

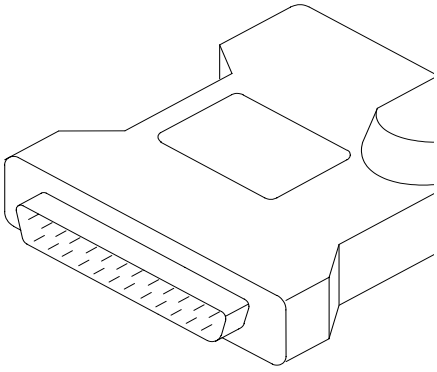
FLS-4S is a dongle and flash device incorporated into one package, developed specifically for POS use.

Product code

FPS-4S Sales Pack – Europe/Africa	0080541
FPS-4S Sales Pack – APAC	0080542
FPS-4S Sales Pack – Americas	0080543

View of FPS-4S

Figure 12: FPS-4S



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PCS-1 Power Cable

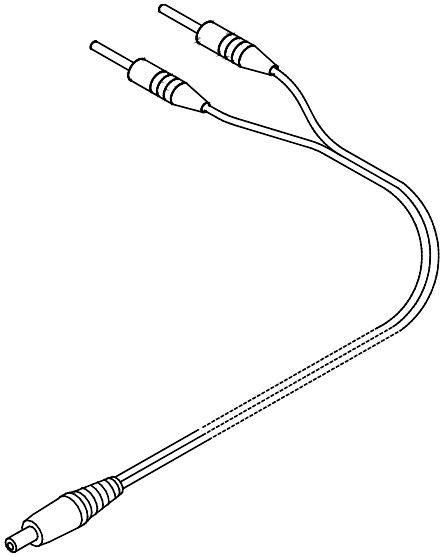
The PCS-1 Power Cable (DC) is used to connect e.g. JBV-1 or MJS-80 to FPS-8.

Product code

PCS-1 Power Cable: 0730012

View of PCS-1

Figure 13: PCS-1



XRF-1 RF Cable

RF cable XRF-1 is used to connect e.g. MJS-80, CPL-5, TDS-10 or RA7 to RF measurement equipment. XRS-6 RF Cable can also be used.

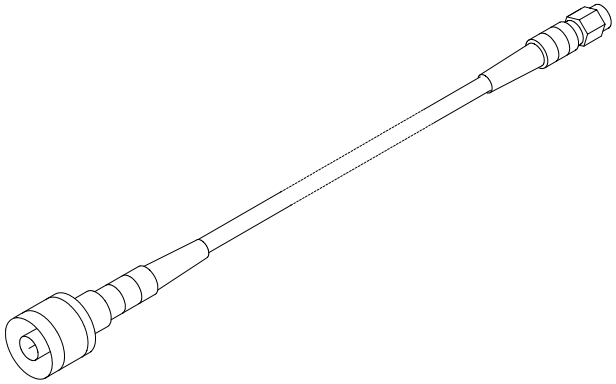
Product code

XRF-1 RF Cable: 0730085

XRS-6 RF Cable: 0730231

View of XRF-1

Figure 14: XRF-1



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XRS-4 RF Cable

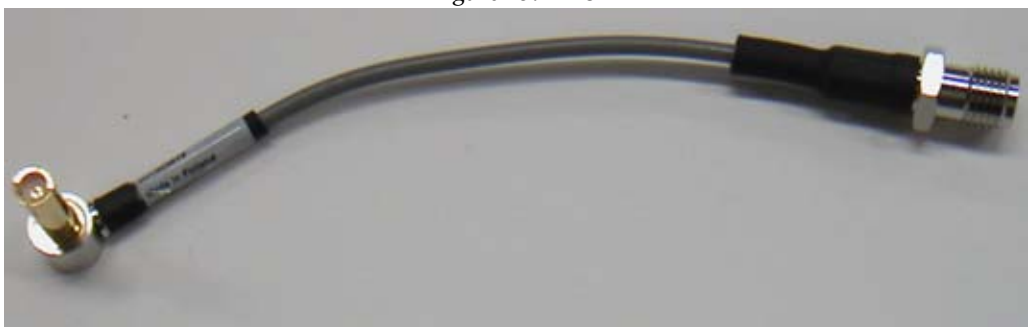
The XRS-4 RF cable is used for tuning with the MJS-26.

Product code

XRS-4 RF Cable:	0730221

View of XRS-4

Figure 15: XRS-4



XRS-11 RF Cable

The XRS-11 RF Cable is used for tuning with the MJS-80.

Product code

XRS-11 RF Cable	0730265

View of XRS-11

Figure 16: XRS-11

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DAU-9S MBUS Cable

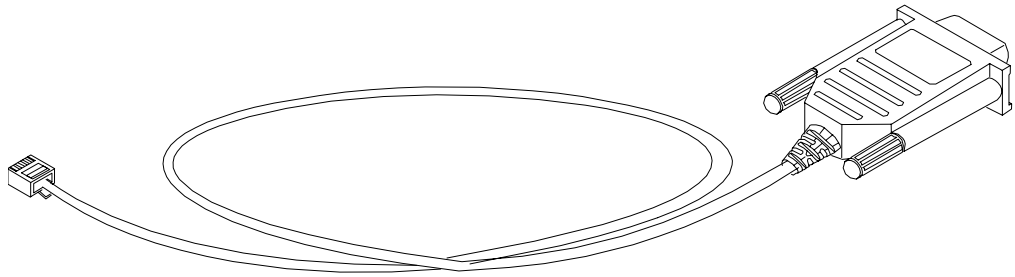
The MBUS Cable DAU-9S has a modular connector, and is used with between PC's serial port and e.g. MJS-80, FLA-41, or JBV-1

Product code

DAU-9S MBUS Cable: 0730108

View of DAU-9S

Figure 17: DAU-9S



CA-5S DC Cable

The DC Cable CA-5S is used to connect e.g. JBV-1 to the phone. SCB-3 DC Cable can also be used.

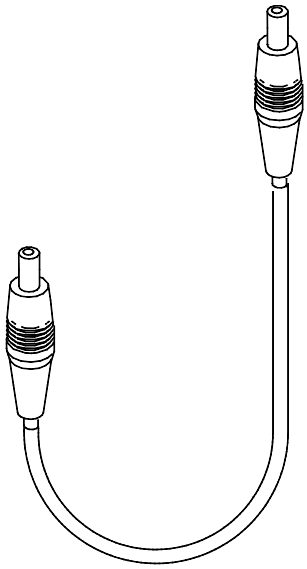
Product code

CA-5S DC Cable: 0730283

SCB-3 DC Cable: 0730114

View of SCB-3

Figure 18: SCB-3



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XCS-4 Modular Cable

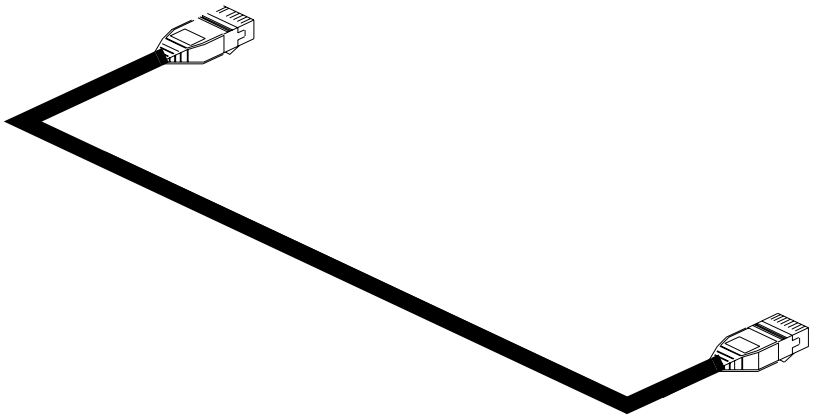
XCS-4 is a shielded cable (one specially shielded conductor) modular cable for flashing and service purposes.

Product code

XCS-4 Modular Cable: 0730178

View of XCS-4

Figure 19: XCS-4



DA-10DS Printer Cable

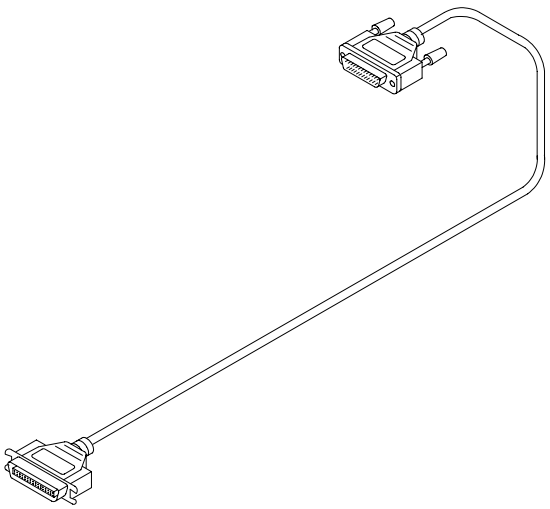
This cable is used to connect the PC to FPS-8.

Product code

DA-10DS Printer Cable: 0730298

View of Printer Cable

Figure 20: DA-10DS



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SS-17 Dome Sheet Assembly Jig

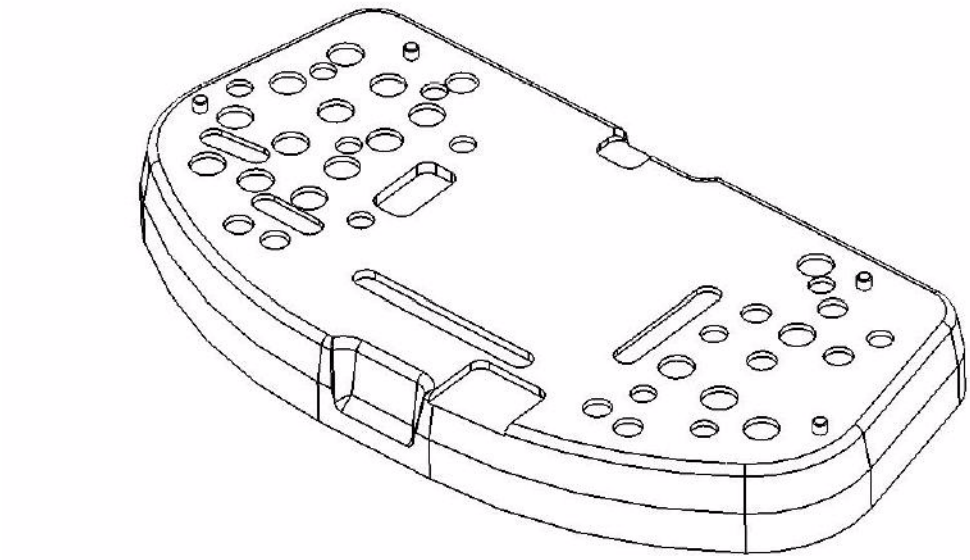
The SS-17 Dome Sheet Assembly Jig is used when new Dome Sheets need to be assembled.

Product code

SS-17 Dome Sheet Assembly Jig	0770773

View of SS-17

Figure 21: SS-17



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